



STIC Search Report

EIC 2600

STIC Database Tracking Number: 197788

TO: Brian Le
Location: Knox 9 A61
Art Unit: 2624
Wednesday, August 09, 2006

Case Serial Number: 10622766

From: Pamela Reynolds
Location: EIC 2600
KNOX 8B54
Phone: 571-272-3505

Pamela.Reynolds@uspto.gov

Search Notes

Dear Brian Le,

Please find attached the search results for 10622766. I used the search strategy I emailed to you to edit, not hearing from you I proceeded. I searched the standard Dialog files, IP.com ACM, IEEE, Proquest, and the internet.

If you would like a re-focus please let me know.

Thank you.

Access DB# 197788

Scientific and Technical Information Center

EIC 2600

Requester's Full Name BRIAN LE Examiner # 79178 Date 08/08/08
 Art Unit 2624 Phone Number 2-7424 Serial Number 10622766
 Office Location 9K1X9EH Format preferred (circle) RAPER EMAIL BOTH

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Let us know what you already have and so do not need. Include the keywords, synonyms and meaning of acronyms. Define all terms that may have a specific meaning. Please attach a copy of the background, abstract, claims and other pertinent information.

Please state how the terms or keyword strings should relate to one another.

Inventor(s)

Earliest Priority date to be used 7-18-2013

see claim 1
last 2 sentences

Searcher P/My mld
Phone _____
Location 8354 lmp
Date picked up 8-8-06
Date completed 8-9-06
Search Prep/review _____
Online Time 1:28

Text ✓
Litigation _____
Other _____

Dialog ✓
STN _____
QuestelOrbit _____
LEXIS/NEXIS _____
Courtlink _____
Other 1

File 2:INSPEC 1898-2006/Jul W5
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File 6:NTIS 1964-2006/Jul W5
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File 94:JICST-EPlus 1985-2006/Apr W5
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(c) 2006 The Thomson Corp
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File 603:Newspaper Abstracts 1984-1988
(c)2001 ProQuest Info&Learning
File 483:Newspaper Abs Daily 1986-2006/Aug 07
(c) 2006 ProQuest Info&Learning
File 248:PIRA 1975-2006/Jul W3
(c) 2006 Pira International

Set	Items	Description
S1	422968	CONTAINER? OR BOTTLE? OR JAR??
S2	752727	LED OR LIGHT()EMIT?()DIODE?
S3	4582	S2(3N) (MATRIX OR MATRICES OR ARRAY? OR ROWS)
S4	1396831	INTENSITY OR INTENSITIES OR LUMINANCE OR BRIGHTNESS
S5	5547648	SIGNAL? OR FREQUENCIES OR FREQUENCY
S6	77264	S5(3N) (PEAK?? OR VALLEY OR PATTERN? OR SPIKES OR SPIKING)
S7	20420	(GREATEST OR HIGHEST OR SHARPEST OR MAXIMUM) (3N) (PEAK? OR - SPIKE OR SPIKING)
S8	1744	S1(3N)TOP
S9	160	S8 AND (INDICAT? OR MATCH? OR SHOWS OR REPRESENT? OR CONFORM?)
S10	218494	WAVEFORM?? OR WAVE()FORM?? OR SINUSOIDAL()CURVE?
S11	1157	S1(3N) (INSPECTION?? OR INSPECTING)
S12	4367	(MACHINE OR AUTOMATED) ()VISION()SYSTEM?
S13	6	AU=(FURNAS, W? OR FURNAS W?)
S14	0	S13 AND S1
S15	1	S11 AND S3
S16	808	S6 AND S7
S17	0	S16 AND S8
S18	121	S16 AND S4
S19	0	S18 AND S3
S20	0	S18 AND S12
S21	3	S18 AND S1

S22	3	S21 NOT (S13 OR S15)
S23	3	RD S22 (unique items)
S24	21	S11 AND S2
S25	0	S24 AND (S6 OR S7)
S26	20	S24 NOT (S21 OR S13 OR S15)
S27	20	RD S26 (unique items)
S28	1	S11 AND S10
S29	1	S28 NOT (S24 OR S21 OR S13 OR S15)
S30	0	S29 NOT HAMMER
S31	19	S9 AND (S10 OR S4 OR S5 OR S6 OR S7)
S32	19	S31 NOT (S28 OR S24 OR S21 OR S13 OR S15)
S33	13	S32 NOT PY=>2004
S34	8	RD S33 (unique items)
S35	3	S34 NOT (TELEPHONY OR MINING OR HOLOGRAPHY OR CONVECTION OR MICROBIOLOGICAL OR RAYNAUD?)

15/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
(c) 2006 Elsevier Eng. Info. Inc. All rts. reserv.

07061430 E.I. No: EIP04428405961

Title: **Camera system detects coated canisters**

Author: Daigle, Richard

Source: Advanced Imaging v 19 n 7 July/August 2004.

Publication Year: 2004

CODEN: ADIMEZ ISSN: 1042-0711

Language: English

...Abstract: multiplied by 480-pixel resolution, shuttering from 10 microseconds to 1 second an integrated red **LED** ring-light **array** and a CS lens mount. The camera looks inside the canister using a Circle Intensity...

Descriptors: *Computer vision; Cameras; **Containers** ; Coatings; Drug products; **Inspection** ; Programmable logic controllers; Camera shutters; Light emitting diodes; Camera lenses; Image sensors
?

23/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2006 Institution of Electrical Engineers. All rts. reserv.

01612268 INSPEC Abstract Number: A74022255

Title: The initial stage of development of type IV radio bursts and the relation to expanding magnetic bottles (Sun)

Author(s): Sakurai, K.
Author Affiliation: NASA, Greenbelt, MD, USA
Journal: Solar Physics vol.31, no.2 p.483-92
Publication Date: Aug. 1973 Country of Publication: Netherlands
CODEN: SLPHAX ISSN: 0038-0938
Language: English
Subfile: A

...Title: initial stage of development of type IV radio bursts and the relation to expanding magnetic bottles (Sun)

...Abstract: band type IV solar radio bursts, the onset time differences between the microwave and metric **frequencies** and the **peak flux intensities** of the metric component are analyzed as a function of the longitudinal position of the...

... this time difference is dependent on the position of the associated flare and that the **peak flux intensity** reaches **maximum** when a flare occurs in the region 10 to 40 degrees west of the central...

... solar disk. These results are explained by taking into account the eastward expansion of magnetic **bottles** which trap mildly relativistic electrons responsible for type IV bursts. Discussion is given on the relation between these magnetic **bottles** and shock waves which excite type II radio bursts.

...Identifiers: expanding magnetic bottles ; ...

...peak flux intensities ;

23/3,K/2 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS
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0382891 NTIS Accession Number: N73-20844/XAB

The Initial Stage of Development of Type 4 Radio Bursts and the Relation to Expanding Magnetic Bottles

Sakurai, K.
National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, Md.

Report No.: NASA-TM-X-66217; X-693-73-103

Mar 73 21p

Journal Announcement: GRAI7313; STAR1111

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NTIS Prices: PC A02/MF A01

... Initial Stage of Development of Type 4 Radio Bursts and the Relation to Expanding Magnetic Bottles

... band type IV solar radio bursts, the onset time differences between the microwave and metric frequencies and the peak flux intensities of the metric component were analyzed as a function of the longitudinal position of associated...

... that this time difference is dependent on the position of associated flares and that the **peak flux intensity** reaches **maximum** when a flare occurs in the region 10 to 40 deg west of the central...

... solar disk. These results are explained by taking into account the eastward expansion of magnetic **bottles** which trap mildly relativistic electrons responsible for type IV bursts. Discussion is also made of the relation between these magnetic **bottles** and shock waves which excite type II radio bursts. (Author)

23/3,K/3 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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00692506 JICST ACCESSION NUMBER: 88A0540767 FILE SEGMENT: JICST-E

The effect of autoclaving on dental air-turbine handpieces evaluated by the roter sound.

TAMAZAWA KAORU (1); ISHIHATA HIROSHI (1); HORIUCHI HIROSHI (1)

(1) Tohoku Univ., Faculty of Dentistry

Nippon Shika Hozongaku Zasshi(Japanese Journal of Conservative Dentistry),
1988, VOL.31,NO.3, PAGE.977-985, FIG.11, REF.3

JOURNAL NUMBER: Y0096AAL ISSN NO: 0387-2343

UNIVERSAL DECIMAL CLASSIFICATION: 616.31-07

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

...ABSTRACT: follows: 1. The sound analysis revealed that the relationship between the rotor speed and the **maximum peak frequency** (MPF) of rotor sound before the autoclaving was divided into 2 categories. In one group...

...DESCRIPTORS: sound **intensity** ;

...BROADER DESCRIPTORS: **container** ;

?

27/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

03687508 INSPEC Abstract Number: B86044186, C86036001

Title: Window on Japanese vision sensing

Author(s): Hollingum, J.

Journal: Sensor Review vol.6, no.2 p.80-2

Publication Date: April 1986 Country of Publication: UK

CODEN: SNRVDY ISSN: 0260-2288

Language: English

Subfile: B C

...Abstract: can also be set independently to any one of four different thresholds. Its application to **inspection** of **bottle** labels and 7-part **LED** reading are discussed. The Fuji PJI image sensor, with a linear CCD array suitable for...

...Identifiers: 7-part **LED** reading...

27/3,K/2 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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2126972 NTIS Accession Number: DE98053033/XAB

Degradation of transuranic waste drums in underground storage at the Hanford Site

Duncan, D. R.

Westinghouse Hanford Co., Richland, WA (United States).

Corp. Source Codes: 888888888

Sponsor: Department of Energy, Washington, DC.

Report No.: WHC-SA-3019-FP

7 May 1996 10p

Languages: English Document Type: Conference proceeding

Journal Announcement: GRAI9917; ERA9918

SPECTRUM '96: international conference on nuclear and hazardous waste management. Sponsored by Department of Energy, Washington, DC.

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NTIS Prices: PC A02/MF A01

... of corrosion degradation and uncertainty in TRU designation (inaccuracy in earlier assay determinations may have **led** to drums that actually were low-level waste to be termed TRU), and to attempt...

Descriptors: *Transuranic wastes; Alpha-bearing Wastes; Underground Storage; **Containers** ; **Inspection** ; Corrosion; Meetings

27/3,K/3 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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1955116 NTIS Accession Number: DE96004769

Evaluation and analysis of non-intrusive techniques for detecting illicit substances

Micklich, B. J. ; Roche, C. T. ; Fink, C. L. ; Yule, T. J. ; Demirgian, J. C.

Argonne National Lab., IL.

Corp. Source Codes: 001960000; 0448000
Sponsor: Department of Energy, Washington, DC.
Report No.: ANL/TD/CP-88013; CONF-9510221-3
1995 7p

Languages: English Document Type: Conference proceeding

Journal Announcement: GRAI9617; ERA9627

ONDCP international technology symposium, Nashua, NH (United States),
24-27 Oct 1995. Sponsored by Department of Energy, Washington, DC.

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email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road,
Springfield, VA, 22161, USA.

NTIS Prices: PC A02/MF A01

... National Drug Control Policy to conduct evaluations and analyses of
technologies for the non-intrusive **inspection** of **containers** for illicit
substances. These technologies span the range of nuclear, X-ray, and
chemical techniques...

... sponsored workshops and a symposium, and are participating in a
Non-Intrusive Inspection Study being led by Dynamics Technology,
Incorporated.

27/3,K/4 (Item 1 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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07641332 E.I. No: EIP05409394974

**Title: Improved surface quality for rolling of tinplate and automotive
sheet**

Author: Critchley, Stuart; Gaboardi, Paolo

Corporate Source: Finishing Technologies Dofasco, Hamilton, Ont., Canada

Source: MPT Metallurgical Plant and Technology International v 28 n 4
August 2005.

Publication Year: 2005

CODEN: MMTIEZ ISSN: 0935-7254

Language: English

...Abstract: the Dofasco cold mill is discussed. The need to maximize
safety, and to optimize costs, led to a joint Dofasco and Techint-Pomini
effort to significantly improve inspection technology. The understanding

...

Descriptors: *Rolling; Tin plate; Sheet metal; Grinding mills; Safety
factor; **Inspection** ; Stainless steel; **Containers**

27/3,K/5 (Item 2 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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07505951 E.I. No: EIP05299219811

**Title: Expertise in lighting and optics takes vision inspection to higher
levels**

Author: Von Ah, Christian

Corporate Source: Emhart Glaas SA, Cham, Switzerland

Source: Glass v 82 n 5 June 2005.

Publication Year: 2005

CODEN: GLASAT ISSN: 0017-0984

Language: English

Descriptors: *Glass manufacture; Optical systems; Quality assurance;
Sealing (closing); Image analysis; Lenses; **Light emitting diodes** ;
Mirrors; Optical beam splitters; Image quality; Light polarization;
Standards; Algorithms
Identifiers: Emhart Glass (CO); Vision **inspection** technology; Blisters;
Glass **containers**

27/3,K/6 (Item 3 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

(c) 2006 Elsevier Eng. Info. Inc. All rts. reserv.

07490711 E.I. No: EIP05289203211

Title: A real-time machine vision system for bottle finish inspection

Author: Duan, Feng; Wang, Yaonan; Liu, Huanjun

Corporate Source: College of Electrical and Information Engineering Hunan University, Changsha, 410082, China

Conference Title: 8th International Conference on Control, Automation, Robotics and Vision (ICARCV)

Conference Location: Kunming, China Conference Date: 20041206-20041209

E.I. Conference No.: 65079

Source: 2004 8th International Conference on Control, Automation, Robotics and Vision (ICARCV) 2004 8th International Conference on Control, Automation, Robotics and Vision (ICARCV) v 2 2004. (IEEE cat n 04EX920)

Publication Year: 2004

ISBN: 0780386531

Language: English

Title: A real-time machine vision system for bottle finish inspection

...Abstract: the most critical defects of recycled bottles adopted in beverage production. This paper presents a **bottle finish inspection** system utilizing state-of-art machine vision technologies to implement high-speed online inspection. The...

Descriptors: *Computer vision; Real time systems; **Bottles ; Inspection ; Light emitting diodes ; Light sources** ; Charge coupled devices; Cameras; Neural networks; Database systems; Boundary value problems; Sampling; Algorithms

27/3,K/7 (Item 4 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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06697985 E.I. No: EIP04047828762

Title: At speeds of light

Author: Anon

Source: Canadian Packaging v 56 n 12 December 2003. p S2

Publication Year: 2003

CODEN: CPAKAN ISSN: 0008-4654

Language: English

...Abstract: and to distinguish any uncoated canister. For the proper detection of a defective can, an **LED** ring light, with an optical lens in front of it, is used along with the...

Descriptors: *Packaging; Computer vision; Sprayed coatings; Polytetrafluoroethylenes; **Containers ; Inspection ; Failure (mechanical)**; Medicine; Health risks; Video cameras; Factory automation; Computer software; Programmable logic controllers

27/3,K/8 (Item 5 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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04924934 E.I. No: EIP98024040712
Title: **Inspection of aluminum gas cylinders for cracking in the neck region**
Author: Price, John W.H.; Ibrahim, Raafat N.; Ischenko, Dimitry
Corporate Source: Monash Univ, Melbourne, Aust
Source: International Journal of Pressure Vessels and Piping v 73 n 1 Aug 1997. p 45-51
Publication Year: 1997
CODEN: PRVPAS ISSN: 0308-0161
Language: English

...Abstract: have shown a liability to develop cracking after a period of time. This cracking has led to leaks and on occasions to violent failures of the cylinders. The cracks grow in...

Descriptors: *Gas cylinders; Aluminum containers ; Inspection ; Crack initiation; Crack propagation; Residual stresses; Stress concentration; Failure (mechanical); Hydrostatic pressure

27/3,K/9 (Item 6 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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04902825 E.I. No: EIP98013999356
Title: **Tampoprint quality control by artificial vision**
Author: Truchetet, F.; Cholley, J.P.
Corporate Source: Universite de Bourgogne, Le Creusot, Fr
Source: Materials Evaluation v 55 n 12 Dec 1997. p 1361-1366
Publication Year: 1997
CODEN: MAEVAD ISSN: 0025-5327
Language: English

...Abstract: products manufactured on a production line. This work, carried out in a university laboratory, has led to the design of a quality control system for tampoprint impressions on plastic casings. The ...

Descriptors: *Quality control; Computer vision; Plastic containers ; Inspection ; Adaptive algorithms; Image processing; Printing

27/3,K/10 (Item 7 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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02104685 E.I. Monthly No: EIM8607-047135
Title: **TRANSPORT OF PACKAGED DANGEROUS GOODS BY SEA-GOING VESSELS VIA PORTS IN THE NETHERLANDS AND PROBLEMS CONNECTED WITH IT.**
Author: de Pruis, Jan
Corporate Source: Netherlands Shipping Inspection, Rijswijk, Neth
Conference Title: 8th International Symposium on the Transport and Handling of Dangerous Goods by Sea and Associated Modes.
Conference Location: Havana, Cuba
E.I. Conference No.: 07636
Source: Pap 5. 2, 9p
Publication Year: 1984

Language: English

...Abstract: the idea to emphasize certain parts of the requirements which may lead or have already led in the past to problems during transport. The latter combined with the advice how to...

...Descriptors: Transportation; PORTS AND HARBORS; CARGO HANDLING; CONTAINERS ; INSPECTION

27/3,K/11 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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01889934 JICST ACCESSION NUMBER: 93A0723611 FILE SEGMENT: JICST-E

Special issue : Automatic design of immediately useful visual inspection .
Inspection of bottles .

KIKUCHI KAZUHIRO (1)

(1) Kirintekunoshisutemu

Kikai Sekkei(Machine Design), 1993, VOL.37,NO.12, PAGE.56-59, FIG.10, REF.1

JOURNAL NUMBER: G0863AAL ISSN NO: 0387-1045

UNIVERSAL DECIMAL CLASSIFICATION: 621.798.1/.2 658.562

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

Special issue : Automatic design of immediately useful visual inspection .
Inspection of bottles .

ABSTRACT: As **bottle inspection** , there are **inspections** during **bottle** manufacturing process and bottling process of soft drinks, food, medicine etc. A rotary type empty **bottle** total **inspection** machine conducts body inspection, mouth side inspection, mouth top inspection and bottom **inspection** at a **bottle** rotating section and a non-rotating section. A straight type inspection machine conducts body inspection...

...DESCRIPTORS: light emitting diode ;

27/3,K/12 (Item 1 from file: 256)

DIALOG(R)File 256:TecInfoSource

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00146700 DOCUMENT TYPE: Review

PRODUCT NAMES: Microsoft Windows 2000 (722367); Microsoft ActiveX Data Objects (ADO) (739545)

TITLE: Infrared lights spot glass-bottle flaws

AUTHOR: Wilson, Andrew

SOURCE: Vision Systems Design, v8 n4 p29(5) Apr 2003

ISSN: 1089-3709

HOME PAGE: <http://www.vision-systems-design.com>

FILE SEGMENT: Review

RECORD TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20030830

...generate glare along the metal conveyor. To address this challenge,

implementers used an infrared (IMPORT) LED in a rectangular format. Two are placed behind the Pro 4000 USB camera located above...

DESCRIPTORS: Containers ; Industrial Automation; Inspection Systems;
Machine Vision; Manufacturing; Windows NT/2000

27/3,K/13 (Item 1 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily
(c) 2006 ProQuest Info&Learning. All rts. reserv.

07891479 SUPPLIER NUMBER: 821452801

OBITUARIES: DUNWOODY: Harvey Taylor, 61, chief Coke packager

HENRY, DERRICK

Atlanta Journal - Constitution, p C.9

Apr 14, 2005

ISSN: 1539-7459 NEWSPAPER CODE: ALJC

DOCUMENT TYPE: Obituary; Newspaper article

LANGUAGE: English RECORD TYPE: ABSTRACT

...ABSTRACT: before then." For the Latin American and European markets, Mr. Taylor helped develop machinery for inspecting returnable plastic bottles, testing the returned bottles for toxicity. "That technology didn't exist before Harvey led the whole process," Mr. Harvill said. "It became very successful."

27/3,K/14 (Item 2 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily
(c) 2006 ProQuest Info&Learning. All rts. reserv.

07075220 SUPPLIER NUMBER: 241975291

Deadlock Over Spending Will Delay Some Programs of New Security Department

Rosenbaum, David e

New York Times, p 19

Nov 21, 2002

ISSN: 0362-4331 NEWSPAPER CODE: NYT

DOCUMENT TYPE: News; Newspaper article

LANGUAGE: English RECORD TYPE: ABSTRACT

...ABSTRACT: to strengthen local police and fire departments will be delayed. For a while longer, overseas inspections of container ships bound for United States ports will not be conducted. Financing for bioterrorism research at...

...immigration inspectors; and hospital preparedness. Last month, a study of domestic security by a group led by former Senators Gary Hart and Warren B. Rudman concluded that the failure to adequately...

27/3,K/15 (Item 3 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily
(c) 2006 ProQuest Info&Learning. All rts. reserv.

06701225 SUPPLIER NUMBER: 96537631

Port of Entry Now Means Point of Anxiety

BAKER, AL; SULLIVAN, JOHN

New York Times, p B.1

Dec 23, 2001

ISSN: 0362-4331 NEWSPAPER CODE: NYT

DOCUMENT TYPE: News; Newspaper article
LANGUAGE: English RECORD TYPE: ABSTRACT

...ABSTRACT: amounts to protect the ports. The unachievable aim of checking every ship by opening every **container** and visually **inspecting** the contents **led** the government to look to computer systems that would try to predict which cargo containers...

27/3,K/16 (Item 1 from file: 248)

DIALOG(R)File 248:PIRA

(c) 2006 Pira International. All rts. reserv.

00642851 Pira Acc. Num.: 20233153

Title: Inspection accuracy, flexibility and configurability: new Veritas series of glass inspection systems from Emhart Glass

Authors: Beiswenger T

Source: Glass vol. 80, no. 5, June 2003, p. 150

ISSN: 0017-0984

Publication Year: 2003

Document Type: Journal Article

Language: English

...Abstract: is replaced by a system that folds the optical path and uses patented software controlled **LED** light panels for both transparent and opaque defects. By launching the new equipment range, the company consolidates and simplifies its vision **inspection** systems for glass **containers** . Veritas series modules use touch screen displays with a common look and feel. (www.emhartglass...

27/3,K/17 (Item 2 from file: 248)

DIALOG(R)File 248:PIRA

(c) 2006 Pira International. All rts. reserv.

00620049 Pira Acc. Num.: 20214227

Title: Technology, knowledge and innovation for glass inspection

Authors: Dormal L; Botman E

Source: Glass vol. 79, no. 5, June 2002, pp 150-151

ISSN: 0017-0984

Publication Year: 2002

Document Type: Journal Article

Language: English

...Abstract: demand for high quality glass and crack free containers in the cosmetics and pharmaceuticals, has **led** equipment manufacturers to seek to produce instruments and systems ensuring glass containers meet the increasingly...

...are designed to improve the quality control in areas such as perfume and nail polish **bottle inspection** for cracks and pharmaceutical **container inspection** . Particular attention is paid to complying with Japan Quality, a set of requirements relating to...

27/3,K/18 (Item 3 from file: 248)

DIALOG(R)File 248:PIRA

(c) 2006 Pira International. All rts. reserv.

00230185 Pira Acc. Num.: 10033421 Pira Abstract Numbers: 03-91-03697

Title: QUALITY ASSURANCE ON THE BOTTLING LINE

Authors: Lister S

Source: Milk Ind. vol. 93, no. 6, June 1991, pp 31-34

ISSN: 0026-4172

Publication Year: 1991

Document Type: Journal Article

Language: English

Abstract: Concern for hygiene has led to the introduction of The UK Food Safety Act 1990. Dairies are taking a closer...

... DairyScan. When combined, the SerieScan base scanner and the DairyScan sidewall system can provide 100% inspection of milk bottles. The SerieScan is well established and standardised upon within the dairy industry but is also...

27/3,K/19 (Item 4 from file: 248)

DIALOG(R)File 248:PIRA

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00145989 Pira Acc. Num.: 6939625 Pira Abstract Numbers: 03-86-02399

Title: PACKAGING QUALITY CONTROL

Authors: Alexander A

Source: Food Prod. vol. 5, no. 2, Feb. 1986, pp 30-35

Publication Year: 1986

Document Type: Journal Article

Language: English

Abstract: An increasing awareness of food quality and hygiene has led to the development of a wide range of metal detection systems. These are limited by...

... in glass containers is also essential for quality control. Barry-Wehmler use an Optiscan glass container inspection unit and an Inex Inc. sidewall inspection unit. Other inspection units from the following manufacturers...

27/3,K/20 (Item 5 from file: 248)

DIALOG(R)File 248:PIRA

(c) 2006 Pira International. All rts. reserv.

00037770 Pira Acc. Num.: 831108 Pira Abstract Numbers: 03-76-01108

Title: BODY GAUGE ASSURES MINOR AXIS ACCURACY

Source: GLASS vol 52 no 11 1975 pp 394-395; Br Glass Ind Res Ass Digest Inf no 247 Jan 1976 p 4

Publication Year: 1975

Document Type: Journal Article

Language: unspecified

Abstract: Improvements in container inspection efficiency which have led to improved line operation and reduced manual operation have been achieved by a system of...

?

35/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

07513982 INSPEC Abstract Number: B2000-04-0170J-032

Title: Bottle top status detection using a laser scanning method

Author(s): Mortimer, B.; Van Der Merwe, A.; Tapson, J.

Author Affiliation: Sch. of Electr. Eng., Cape Technikon, Cape Town, South Africa

Conference Title: 1999 IEEE Africon. 5th Africon Conference in Africa (Cat. No.99CH36342) Part vol.2 p.923-6 vol.2

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 1999 Country of Publication: USA 2 vol.(xx+xiv+1252) pp.

ISBN: 0 7803 5546 6 Material Identity Number: XX-1999-03563

U.S. Copyright Clearance Center Code: 0 7803 5546 6/99/\$10.00

Conference Title: 1999 IEEE Africon. 5th Africon Conference in Africa

Conference Date: 28 Sept.-1 Oct. 1999 Conference Location: Cape Town, South Africa

Language: English

Subfile: B

Copyright 2000, IEE

Title: Bottle top status detection using a laser scanning method

...Abstract: are scanned in-line using a laser beam. The reflection is detected and the resultant waveform represents a function of the surface profile which can be used for seal status evaluation.

Identifiers: bottle top status detection...

35/3,K/2 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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0286014 NTIS Accession Number: AD-728 922/XAB

Frequency Response Damping, and Transmissibility Characteristics of Top -Loaded Corrugated Containers

(Forest Service research paper)

Godshall, W. D.

Forest Products Lab Madison Wis

Corp. Source Codes: 141700

Report No.: FSRP-FPL-160

1971 14p

Journal Announcement: GRAI7120

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A02/MF A01

Frequency Response Damping, and Transmissibility Characteristics of Top -Loaded Corrugated Containers

... in the stack. The study, in cooperation with the Fibre Box Association, experimentally verified that top-loaded containers are frequency-sensitive systems with resonant frequencies ranging from 8.4 to 18.2 cycles per second. Transmissibility amplification ratios as high as 6.7 were found at resonance, with a representative value of system damping of 0.115. These resonant responses occur within the range of frequencies likely to be present in common carrier transportation vehicles. Thus consideration must be given to...

Descriptors: *Containers; Structural properties; Resonant **frequency** ;
Damping; Vibration; Failure(Mechanics); Loading(Mechanics); Cargo

35/3,K/3 (Item 1 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
(c) 2006 Elsevier Eng. Info. Inc. All rts. reserv.

05769252 E.I. No: EIP01015497645

Title: Development of a novel ultrasound monitoring system for container filling operations

Author: Griffin, S.J.; Hull, J.B.; Lai, E.

Corporate Source: Nottingham Trent Univ, Nottingham, UK

Source: Journal of Materials Processing Technology v 109 n 1-2 Feb 2001.

p 72-77

Publication Year: 2001

CODEN: JMPTEF ISSN: 0924-0136

Language: English

Abstract: Food and drink production **represents** the largest manufacturing sector in the UK economy and are among the largest UK exporters...

...Most of the SMEs possess little, if any research facilities or research expertise. Food processing **represents** a field of rapid development and implementation of new approaches in process technology, in particular...

...to assist determination of the potential benefits of mounting the sensors on the side and **top** of **containers** . Three sensing techniques have been identified and explored, and two methods of **signal** processing have been assessed to determine the optimum approach. The central result of this work...

...the non-contact air transmission approach to ultrasound sensing. Ultrasound monitoring from the side or **top** of **containers** requires a contact approach and therefore is seen as impractical for a high-speed food ..

File 344:Chinese Patents Abs Jan 1985-2006/Jan
(c) 2006 European Patent Office
File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)
(c) 2006 JPO & JAPIO
File 350:Derwent WPIX 1963-2006/UD=200650
(c) 2006 The Thomson Corporation

Set	Items	Description
S1	762250	CONTAINER? OR BOTTLE? OR JAR??
S2	310654	LED OR LIGHT()EMIT?()DIODE?
S3	9559	S2(3N)(MATRIX OR MATRICES OR ARRAY? OR ROWS)
S4	348650	INTENSITY OR INTENSITIES OR LUMINANCE OR BRIGHTNESS
S5	3023435	SIGNAL? OR FREQUENCIES OR FREQUENCY
S6	41737	S5(3N)(PEAK?? OR VALLEY OR PATTERN? OR SPIKES OR SPIKING)
S7	4941	(GREATEST OR HIGHEST OR SHARPEST OR MAXIMUM)(3N)(PEAK? OR - SPIKE OR SPIKING)
S8	21383	S1(3N)TOP
S9	6462	S8 AND (INDICAT? OR MATCH? OR SHOWS OR REPRESENT? OR CONFO- RM?)
S10	118808	WAVEFORM?? OR WAVE()FORM?? OR SINUSOIDAL()CURVE?
S11	2577	S1(3N)(INSPECTION?? OR INSPECTING)
S12	478	(MACHINE OR AUTOMATED)()VISION()SYSTEM?
S13	23	AU=(FURNAS, W? OR FURNAS W?)
S14	21	S13 AND S1
S15	4	S14 AND S3
S16	36	S4 AND S6 AND S7
S17	0	S16 AND S8
S18	1	S16 AND S1
S19	1	S18 NOT S15
S20	0	S19 NOT SEMICONDUCTOR?
S21	37440	(S1 OR S9 OR S11) AND (S4 OR S5 OR S6 OR S7 OR S10)
S22	1054	S21 AND (S2 OR S3)
S23	0	S22 AND S12
S24	19	S22 AND IC=G06K?
S25	17	S24 NOT (S15 OR S18)
S26	16	S25 NOT AD=20030718:20060808/PR
S27	7	S26 NOT (TAG OR CASE OR CARDS OR CHRACTER OR DRAWING OR BA- RCODES OR BAR()CODES OR VEHICLE OR BLOOD OR RADIATION)
S28	5	S27 NOT (BOOK OR SCANNER OR BANK()DEPOSIT?)
S29	8	S11 AND S3
S30	0	S29 AND (S6 OR S7)
S31	5	S29 AND S4
S32	1	S31 NOT (S24 OR S15 OR S18)
S33	0	S9 AND S12
S34	5	S9 AND S10
S35	5	S34 NOT (S31 OR S24 OR S15 OR S18)
S36	4	S35 NOT AD=20030718:20060808/PR

15/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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08295098 **Image available**
BOTTLE INSPECTION DEVICE

PUB. NO.: 2005-043358 [JP 2005043358 A]
PUBLISHED: February 17, 2005 (20050217)
INVENTOR(s): FURNAS WILLIAM J
APPLICANT(s): EMHART GLASS SA
APPL. NO.: 2004-209718 [JP 2004209718]
FILED: July 16, 2004 (20040716)
PRIORITY: 03 622766 [US 2003622766], US (United States of America),
July 18, 2003 (20030718)

BOTTLE INSPECTION DEVICE

INVENTOR(s): FURNAS WILLIAM J

ABSTRACT

PROBLEM TO BE SOLVED: To specify the height of a **bottle** on the basis of an **LED matrix** in a **bottle** inspection device for inspecting a glass **container** using the **LED matrix**.

SOLUTION: The **bottle** inspection device is constituted so as to illuminate a **bottle** 10 on a conveyor 12 by an **LED matrix** light source. In this **bottle** inspection device, an intensity pattern periodic in the vertical direction is prescribed to facilitate identification...

... intensity pattern corresponds to the intensity of the LED opposing the top part of the **bottle**.

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15/3,K/2 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0014755977 - Drawing available
WPI ACC NO: 2005-103630/
XRPX Acc No: N2005-089930

Bottle inspection machine detects LED of vertical row of LED matrix light source for illuminating bottle, which locates top of bottle, based on light intensity transition along vertical row of LEDs

Patent Assignee: EMHART GLASS SA (EMHA); FURNAS W J (FURN-I)

Inventor: FURNAS W J

Patent Family (3 patents, 35 countries)

Patent			Application			Update
Number	Kind	Date	Number	Kind	Date	
EP 1498725	A1	20050119	EP 2004254103	A	20040708	200512 B
US 20050013473	A1	20050120	US 2003622766	A	20030718	200512 E
JP 2005043358	A	20050217	JP 2004209718	A	20040716	200513 E

Priority Applications (no., kind, date): US 2003622766 A 20030718

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 1498725	A1	EN	8	3	

Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI
FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR
JP 2005043358 A JA 6

Bottle inspection machine detects LED of vertical row of LED matrix
light source for illuminating bottle , which locates top of bottle ,
based on light intensity transition along vertical row of LEDs

Original Titles:

Inspektionsvorrichtung fur Container

...

... Container inspection machine...

... Container inspection machine

Inventor: FURNAS W J

Alerting Abstract ...NOVELTY - An LED matrix light source (14)
directs light towards the bottle (10) placed at inspection location. A
camera (16) images illuminated bottle . A processor (18) evaluates the
bottle image, and defines vertical periodic intensity pattern of
triangular shape, of a vertical row of LEDs, and detects LED of the
vertical row, which locates the top of bottle , based on light intensity
transition along the vertical row of LEDs.USE - For inspecting bottle
made of glass...

...ADVANTAGE - Enables to easily define the height of the bottle by
detecting LED that locates top of bottle using light intensity transition
along vertical row of LEDs...

...DESCRIPTION OF DRAWINGS - The figure shows a schematic view of the
bottle inspection machine...

...10 bottle

Title Terms/Index Terms/Additional Words: BOTTLE ;

Original Publication Data by Authority

Inventor name & address:

Furnas, William J ...

... Furnas, William J

Original Abstracts:

An L.E.D. matrix light source (14) illuminates a bottle (10) at an
inspection machine. A vertically periodic intensity pattern is defined to
facilitate the identification of defects. The L.E.D. that locates the top
of the bottle is identified and a peak of the pattern is located at that
L.E.D...

...An L.E.D. matrix light source illuminates a bottle at an inspection
machine. A vertically periodic intensity pattern is defined to facilitate
the identification of defects. The L.E.D. that locates the top of the
bottle is identified and a peak of the pattern is located at that L.E.D.

Claims:

A machine for inspecting a container comprising a conveyor for
supporting a container at an inspection location, and an inspection

system for inspecting a **container** at the inspection location including a camera having an imaging surface on one side of...

...locating the L.E.D of the vertical row that locates the top of a **container** to be inspected at a peak of the periodic intensity pattern...

...1 /b . A machine for inspecting a **bottle** comprising a conveyor for supporting a **bottle** at an inspection location, and an inspection system for inspecting a **bottle** at the inspection location including a camera having an imaging surface on one side of the **bottle** , an L.E.D. matrix light source having a plurality of horizontal L.E.D. rows on the other side of the **bottle** directing light towards said camera, and a processor for defining a vertical periodic intensity pattern...

...locating the L.E.D of the vertical row that locates the top of a **bottle** to be inspected at a peak of the periodic intensity pattern.

15/3,K/3 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0011040442 - Drawing available

WPI ACC NO: 2001-094448/

Related WPI Acc No: 1999-432547

XRPX Acc No: N2001-071639

Container inspection machine, includes light source which defines a spatially cyclically continuously varying intensity between light and dark on an illumination area at rate of change less than that required to be detected as defect

Patent Assignee: EMHART GLASS SA (EMHA)

Inventor: FURNAS W J

Patent Family (7 patents, 6 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
GB 2350424	A	20001129	GB 200011403	A	20000511	200111 B
DE 10017381	A1	20001130	DE 10017381	A	20000407	200111 E
FR 2794241	A1	20001201	FR 20006625	A	20000524	200111 E
JP 2001004553	A	20010112	JP 2000152576	A	20000524	200118 E
IT 1317655	B	20030715	IT 2000M11125	A	20000522	200357 E
US 6618495	B1	20030909	US 199826311	A	19980219	200361 E
			US 1999318360	A	19990525	
GB 2350424	B	20040225				200416 E

Priority Applications (no., kind, date): US 199826311 A 19980219; US 1999318360 A 19990525

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
GB 2350424	A	EN	11	3	
JP 2001004553	A	JA	5		
US 6618495	B1	EN			C-I-P of application US 199826311 C-I-P of patent US 6031221

Container inspection machine, includes light source which defines a spatially cyclically continuously varying intensity between light...

Original Titles:

...MACHINE FOR CHECK BOTTLE WALL...

... **Container** inspection machine
Inventor: **FURNAS W J**

Alerting Abstract ...NOVELTY - The **containers** (10), are delivered sequentially by a conveyor (12) to an inspection station (16). A light...

...camera (14) on the opposite side provide the means to create an image of the **container** . DESCRIPTION - The light source includes the means, e.g. an **array of light emitting diodes** arranged in **rows** , for defining a spatially, cyclically and continuously varying intensity between the extremes of light and...

...USE - For inspecting the walls of a glass or plastic transparent **container** , e.g. **bottle** , for defects...

...ADVANTAGE - Does not require the **container** to be rotated. The cyclic intensity nature of the illumination permits defect detection throughout the **container** .

...

...10 **Container**

Title Terms/Index Terms/Additional Words: **CONTAINER ;**

Original Publication Data by Authority

Inventor name & address:

Furnas, William J., Elmira, New York, US ...

... **FURNAS W J** ...

... **FURNAS W J** ...

... **FURNAS W J** ...

... **FURNAS WILLIAM J** ...

... **Furnas, William J**

Original Abstracts:

...A machine is disclosed for inspecting the wall of a **bottle** which is delivered by a conveyor sequentially to an inspection station. A light source defined...

Claims:

...What is claimed is: 1. A machine for inspecting the wall of a **bottle** comprising a conveyor for supporting a **bottle** at an inspection station, the inspection station including a CCD camera on one side of...

...source, having an illumination area, on the other side of the conveyor, for imaging the **bottle** on said CCD camera image; means for defining on said illumination area light intensities varying...

15/3,K/4 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0011040441 - Drawing available

WPI ACC NO: 2001-094447/

XRPX Acc No: N2001-071638

Inspection machine for glass or plastic containers , eg. bottles , projects plural LED rows of light sources through container under test to identify light blocking and refractive defects

Patent Assignee: EMHART GLASS SA (EMHA)

Inventor: FURNAS W J

Patent Family (6 patents, 5 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
GB 2350423	A	20001129	GB 200011402	A	20000511	200111 B
DE 10017380	A1	20001130	DE 10017380	A	20000407	200111 E
FR 2794242	A1	20001201	FR 20006626	A	20000524	200111 E
JP 2001027616	A	20010130	JP 2000152577	A	20000524	200122 E
IT 1317656	B	20030715	IT 2000MI1126	A	20000522	200357 E
GB 2350423	B	20040225				200416 E

Priority Applications (no., kind, date): US 1999318249 A 19990525

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
GB 2350423	A	EN	11	3	
JP 2001027616	A	JA	5		

Inspection machine for glass or plastic containers , eg. bottles , projects plural LED rows of light sources through container under test to identify light blocking and refractive defects

Original Titles:

...MACHINE FOR INSPECTING WALL OF BOTTLE

Inventor: FURNAS W J

Alerting Abstract ...NOVELTY - The inventive apparatus provides inspection of **containers** , eg. **bottle** (10) walls, at an inspection station (16), through which the **containers** pass on conveyor belt (12). The station includes light sources (18) outputting through diffuser (19), through **containers** passing on the belt, and on to charge-coupled device (CCD) camera (14) and analysing computer (15). The vertical **rows** of **LED** 's project spatially cyclical, continuously varying light intensity patterns. Light-blocking defects are received by...
USE - For inspecting sidewall profiles of glass/plastic **containers** such as **bottles** , at an inspection station for locating defects...

...ADVANTAGE - Provides inspection of **container** wall to identify both light-blocking as well as refractive defects, which show as unevenness...

...DESCRIPTION OF DRAWINGS - The drawing illustrates schematically an overhead view of a **container** inspection station in accordance with the inventive system...

...10 **Container** at...

...18 Light sources eg. vertical **rows** of **LED** 's, emitting through...

...19 Diffusing element, to illuminate **container** under inspection, with output beams received by...

Technology Focus

CERAMICS AND GLASS - **Containers** for testing may be manufactured from glass.

Title Terms.../Index Terms/Additional Words: CONTAINER ; ...

... BOTTLE ;

Original Publication Data by Authority

Inventor name & address:

Furnas, William J., Elmira, New York, US ...

... FURNAS W J ...

... FURNAS W J ...

... FURNAS W J ...

... FURNAS WILLIAM J

?

28/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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03000886 **Image available**
METHOD AND DEVICE FOR READING CHARACTER AND THE LIKE

PUB. NO.: 01-298486 [JP 1298486 A]
PUBLISHED: December 01, 1989 (19891201)
INVENTOR(s): IZAWA TAKIO
NISHIOKA YOSHIO
IKEDA TAKESHI
TAKAYAMA SHOGO
APPLICANT(s): JAPAN METALS & CHEM CO LTD [000007] (A Japanese Company or
Corporation), JP (Japan)
HATTORI SEIKO CO LTD [000503] (A Japanese Company or
Corporation), JP (Japan)
APPL. NO.: 63-128203 [JP 88128203]
FILED: May 27, 1988 (19880527)
JOURNAL: Section: P, Section No. 1009, Vol. 14, No. 92, Pg. 10,
February 20, 1990 (19900220)

INTL CLASS: G06K-009/20 ; G06K-009/00
...JAPIO KEYWORD: Light Emitting Diodes , LED)
ABSTRACT

... the character, symbol and number punched to the curved surface of a high-pressure gas container , a reflected ultrasonic wave is received by the transducer 1 again, converted to an electric signal , the smoothing processing is executed by a preprocessing step 3, the binarization processing is executed, the character is segmented by a character separating step 4, the normalized signal is supplied to a feature extracting and identifying step 5 and the feature extraction and...

28/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
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00797040 **Image available**
OPTICAL DATA READING AND WRITING DEVICE

PUB. NO.: 56-117340 [JP 56117340 A]
PUBLISHED: September 14, 1981 (19810914)
INVENTOR(s): IWAOKA HIDETO
APPLICANT(s): YOKOGAWA HOKUSHIN ELECTRIC CORP [000650] (A Japanese Company
or Corporation), JP (Japan)
APPL. NO.: 55-018817 [JP 8018817]
FILED: February 18, 1980 (19800218)
JOURNAL: Section: P, Section No. 93, Vol. 05, No. 196, Pg. 23,
December 12, 1981 (19811212)

INTL CLASS: G11B-007/08; G02B-007/11; G06K-001/12 ; G06K-007/10

ABSTRACT

... of laser beam incident to the disk recording surface at constant incident angle (.theta.) is led to a photoelectric converter divided into four sections via a different optical path from the...

...CONSTITUTION: Container 11 constituting optical data reading and writing device HD (head) has an opening tip; light...

... surface and its reflected light is photodetected by photoelectric converter 7, which leads four output **signals** out of the head to arithmetic circuit SC, thereby outputting three kind of arithmetic outputs.

28/3,K/3 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0014288904 - Drawing available

WPI ACC NO: 2004-475554/

Device and method for keeping/searching bottle using fingerprint recognition

Patent Assignee: I BIZ SHOP CO LTD (IBIZ-N)

Inventor: PARK S H

Patent Family (1 patents, 1 countries)

Patent		Application				Update	
Number	Kind	Date	Number	Kind	Date		
KR 2004022076	A	20040311	KR 200253908	A	20020906	200445	B

Priority Applications (no., kind, date): KR 200253908 A 20020906

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
KR 2004022076	A	KO	1	10	

Device and method for keeping/searching bottle using fingerprint recognition

Alerting Abstract ...NOVELTY - A device and a method for keeping/searching a **bottle** using fingerprint recognition are provided to easily keep the **bottle** remaining liquor and easily find the kept **bottle** by using the fingerprint recognition. DESCRIPTION - When the **bottle** is stored, a wireless fingerprint reader(130) reads a fingerprint of a customer, converts the read fingerprint data and a serial number of the **bottle** into a wireless **signal**, and transmits it. When the **bottle** is searched, the wireless fingerprint reader reads the fingerprint of the customer, converts the fingerprint data into the wireless **signal**, and transmits it. A control part(220) receives/analyzes the wireless **signal** transmitted from the wireless fingerprint reader, stores the fingerprint data and the serial number in...

...matched with the fingerprint data from the memory, converts the serial number to the wireless **signal**, and transmits it. A receiver(310) receives the wireless **signal** transmitted from the controller and flickers an **LED** (**Light Emitting Diode**)(320) if the wireless **signal** is matched with the serial number.

Title Terms.../Index Terms/Additional Words: **BOTTLE** ;

Class Codes

International Classification (Main): G06K-009/00

28/3,K/4 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0009601458 - Drawing available
WPI ACC NO: 1999-550439/199946
Related WPI Acc No: 1997-503313; 2001-190813; 2001-366890
XRAM Acc No: C1999-160467
XRPX Acc No: N1999-407267

Illumination assembly of portable data collection device

Patent Assignee: TELXON CORP (TELX-N)

Inventor: FENG C

Patent Family (1 patents, 1 countries)

Patent			Application			Update
Number	Kind	Date	Number	Kind	Date	
US 5949057	A	19990907	US 1996623963	A	19960329	199946 B
			US 1997797552	A	19970131	

Priority Applications (no., kind, date): US 1996623963 A 19960329; US
1997797552 A 19970131

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5949057	A	EN	41	52	C-I-P of application US 1996623963

Alerting Abstract ...Based on the illuminated target, an image is picked up using 2D photosensor. The sensor **signal** is then decoded...

...USE - For portable data collection device used for product and/or **container** packaging in warehouse, retail stores, shipping terminals, etc., and for tracking production control and quality...

...ADVANTAGE - By suitable positioning of optical surfaces, illumination **intensity** across the target area is made uniform. As uniform crosshair pattern is obtained at target...

Class Codes

International Classification (Main): G06K-007/10

Original Publication Data by Authority

Original Abstracts:

...device also includes an illumination assembly including an circuit board assembly supporting illumination and targeting **light emitting diodes** and a lens **array** or panel positioned adjacent the circuit board assembly for focusing an even pattern of illumination...

Claims:

...collection device comprising:a) a camera assembly, including an array of photosensor elements generating a **signal** representative of an image of a target area, the image including a dataform positioned in...

...focused onto the array of photosensor elements;c) image processing and decoder circuitry receiving said **signal** and generating decoded data representative of the dataform; andd) an illumination assembly directing illumination...

...aid in aiming the portable data collection device, the targeting arrangement including first and second **targeting light emitting diodes** and first and second targeting optics, the first targeting optics comprising a single lens positioned adjacent the first **targeting light emitting diode** and generating a first illumination targeting pattern and the second targeting optics comprising a single lens positioned adjacent the second **targeting light emitting diode** and generating a second

illumination targeting pattern, the first and second targeting pattern substantially...

28/3,K/5 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0004276460 - Drawing available
WPI ACC NO: 1988-002138/

Automatic data reading appts. for human colour vision best - has colour caps with code markings reading head comprising LED , and computer for processing signals from LEDs

Patent Assignee: LANCASTER P (LANC-I)

Inventor: LANCASTER P

Patent Family (1 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
GB 2192079	A	19871231	GB 198615530	A	19860625	198801 B

Priority Applications (no., kind, date): GB 198615530 A 19860625

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
GB 2192079	A	EN	5	6	

...has colour caps with code markings reading head comprising LED , and computer for processing signals from LEDs

Alerting Abstract ...The reading head (10) contains pairs of light emitters (8) and detectors (9), e.g. light emitting diodes and light activated switches arranged to produce horizontal beams of light vertically above each other. The beams are interrupted by the codes in the bottles beneath the caps...

Title Terms.../Index Terms/Additional Words: LED ; ...

... SIGNAL

Class Codes

... (Additional/Secondary): G06K-007/10

Original Publication Data by Authority

Claims:

...The reading head (10) contains pairs of light emitters (8) and detectors (9), e.g. light emitting diodes and light activated switches arranged to produce horizontal beams of light vertically above each other. The beams are interrupted by the codes in the bottles beneath the caps...

?

32/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0010718876 - Drawing available
WPI ACC NO: 2001-329977/200135
XRPX Acc No: N2001-237517

Optical inspection device for bottles or glasses uses illumination device with 2-dimensional LED array providing higher illumination level at its edges

Patent Assignee: KRONES AG (KROE)
Inventor: BRUNNER X; KWIRANDT G; PIANA S
Patent Family (3 patents, 25 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
DE 19953738	C1	20010607	DE 19953738	A	19991109	200135 B
EP 1109010	A1	20010620	EP 2000122931	A	20001021	200135 E
EP 1109010	B1	20060628	EP 2000122931	A	20001021	200643 E

Priority Applications (no., kind, date): DE 19953738 A 19991109

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
DE 19953738	C1	DE	7	4	
EP 1109010	A1	DE			

Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR
IE IT LI LT LU LV MC MK NL PT RO SE SI

EP 1109010 B1 DE

Regional Designated States,Original: CH DE FR GB IT LI

Optical inspection device for bottles or glasses uses illumination device with 2-dimensional LED array providing higher illumination level at its edges

Alerting Abstract ...glasses are passed via a transport device (4). The illumination device has a 2-dimensional **LED array**, providing a brighter illumination at its edges parallel to the bottle or glass longitudinal axis ...

...in the intermediate central region. The illumination may be brighter at the edges of the **LED array** by 30 %....**ADVANTAGE** - The brighter illumination level at the edges of the **LED array** compensates the longer light path between the illumination device and the bottle or glass wall...

...**DESCRIPTION OF DRAWINGS** - The figure shows a schematic representation of a **bottle** or glass **inspection device**...

Original Publication Data by Authority

Original Abstracts:

...oder dgl. Gefasse mit einer Beleuchtungseinrichtung, wobei der Leuchtkorper der Beleuchtungseinrichtung aus einem zweidimensionalen, ebenen **LED - Array** gebildet wird, dessen zur Flaschenlangsachse parallelen Randbereiche heller als das dazwischenliegende Zentrum leuchten ...

...oder dgl. Gefasse mit einer Beleuchtungseinrichtung, wobei der Leuchtkorper der Beleuchtungseinrichtung aus einem zweidimensionalen, ebenen **LED - Array** gebildet wird, dessen zur Flaschenlangsachse

parallelen Randbereiche heller als das dazwischenliegende Zentrum leuchten.
Claims:

...der Bildaufnahmeeinrichtung (b 3 /b) vorbeiführenden
Transporteinrichtung (b 4 /b), b dadurch gekennzeichnet /b , dass die
Beleuchtungseinrichtung (b 2 /b) ein zweidimensionales, ebenes **LED -
Array** (b 18 /b) aufweist, dessen zur Flaschenlangachse parallele
Randbereiche (b 18 /b A, b 18 /b B) heller als das dazwischenliegende...
...dgl. Gefasse mit einer Beleuchtungseinrichtung (2), dadurch
gekennzeichnet, dass der Leuchtkörper der Beleuchtungseinrichtung aus einem
zweidimensionalen , ebenen LED-Array (18) gebildet wird, dessen zur
Flaschenlangachse parallelen Randbereiche (18A, 18B) heller als das...

...Seite einer Kamera (3) zugeführt wird, b dadurch gekennzeichnet,
dass /b der Leuchtkörper der Beleuchtungseinrichtung aus einem
zweidimensionalen , ebenen LED-Array (18) gebildet wird, dessen zur
Flaschenlangachse parallelen Randbereiche (18A, 18B) heller als das...

...camera (3), b characterised in that /b the luminous body of the
illuminating apparatus comprises a two- **dimensional planar** LED array
(18) whose edge regions (18A, 18B) parallel to the bottle longitudinal axis
illuminate...

...the bottle surface and the illuminating apparatus (2), the light emerges
from the LED regions **with** greater brightness...
?

36/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0014446209 - Drawing available
WPI ACC NO: 2004-636987/200462
XRPX Acc No: N2004-503308

Parallelepiped cardboard container for e.g. tissue paper, includes cut which constitute opening portion such that cut has wave form with pitch of 0.1 mm to 3.0 mm

Patent Assignee: SAKAMOTO SEISAKUSHO KK (SAKA-N); SAKAMOTO STEEL RULEDIE INC (SAKA-N); SAKAMOTO Y (SAKA-I)

Inventor: SAKAMOTO Y

Patent Family (5 patents, 37 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 1457434	A2	20040915	EP 2004251379	A	20040310	200462 B
US 20040178211	A1	20040916	US 2004797134	A	20040311	200462 E
JP 2004276922	A	20041007	JP 200367221	A	20030312	200466 E
CN 1530301	A	20040922	CN 200410008275	A	20040302	200503 E
KR 2004080969	A	20040920	KR 200411312	A	20040220	200508 E

Priority Applications (no., kind, date): JP 200367221 A 20030312

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 1457434	A2	EN	9	9	

Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI
FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR

JP 2004276922 A JA 7

...for e.g. tissue paper, includes cut which constitute opening portion such that cut has wave form with pitch of 0.1 mm to 3.0 mm

Alerting Abstract ...1) includes a cut (5) which constitute an opening portion (10). The cut has a wave form with a pitch of 0.1 mm to 3.0 mm. The opening portion is arranged at the top (2a) of a container main body (2)....DESCRIPTION OF DRAWINGS - The figure shows the perspective view of the container...

Original Publication Data by Authority

Original Abstracts:

...pivotable flaps (3a,3b). Cuts (5) in the top (2a) defining the flaps have a wave - form with a pitch of 0.1mm to 3.0mm and are formed by a cutting...

...one upon another, being folded; and an opening portion b 10 /b which is formed on the top of the container main body b 2 /b , wherein respective cuts b 5 /b for a pair of up and down movable...

Claims:

...or the like which opening portion (10) is formed by cutting a part of a top (2a) of the container main body (2), wherein a cut (5) constituting said opening portion (10) has a wave - form with a pitch of 0.1 mm to 3.0 mm...

...out said paper or the like that is formed by cutting a part of the top of the container main body, wherein a cut constituting said opening portion is formed with a waved blade...

36/3,K/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0011183291 - Drawing available

WPI ACC NO: 2002-121235/200216

Related WPI Acc No: 2000-170548

XRPX Acc No: N2002-090917

Rotatable surfing simulator has wave-forming device having inclined surface for forming surfable wave from portion of body of water shaped by aerofoil

Patent Assignee: HILL K D (HILL-I)

Inventor: HILL K D

Patent Family (1 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 6336771	B1	20020108	US 199628002	P	19961008	200216 B
			US 1997944401	A	19971006	
			US 2000477070	A	20000103	

Priority Applications (no., kind, date): US 1997944401 A 19971006; US 199628002 P 19961008; US 2000477070 A 20000103

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 6336771	B1	EN	34	26	Related to Provisional US 199628002
					C-I-P of application US 1997944401
					C-I-P of patent US 6019547

Alerting Abstract ...DESCRIPTION OF DRAWINGS - The figure shows the partial side view of the embodiment of the rotatable surfing simulator...

Original Publication Data by Authority

Original Abstracts:

...used to enable spectators to view, from the side or underside, a surfer riding a **wave formed** on the wave-forming device. Wave enhancing devices are also provided to vary the shape...

Claims:

A rotatable surfing simulator comprising: a **container**, open at the **top** for holding a body of water of desired volume to support a surf craft and ...

36/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0010659066 - Drawing available

WPI ACC NO: 2001-267309/200128

XRAM Acc No: C2001-081122

XRPX Acc No: N2001-191250

Blow-molded plastic container for foodstuffs, has longitudinal ribs spaced around its inner surface

Patent Assignee: RPC VERPACKUNGEN KUTENHOLZ GMBH (RPCV-N)

Inventor: DIECKMANN R; HOLST D

Patent Family (5 patents, 25 countries)

Patent	Application
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Number	Kind	Date	Number	Kind	Date	Update
DE 29923640	U1	20010301	DE 19942109	U	19990903	200128 B
			DE 29923640	U	19990903	
DE 19942109	A1	20010315	DE 19942109	A	19990903	200128 E
EP 1088763	A2	20010404	EP 2000118793	A	20000830	200128 E
EP 1088763	A8	20010606	EP 2000118793	A	20000830	200133 E
DE 19942109	B4	20060427	DE 19942109	A	19990903	200629 E

Priority Applications (no., kind, date): DE 19942109 A 19990903; DE 29923640 U 19990903

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
DE 29923640	U1	DE	18	4	Based on application DE 19942109
EP 1088763	A2	EN			

Regional Designated States, Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

EP 1088763 A8 DE

Regional Designated States, Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

Alerting Abstract ...DESCRIPTION OF DRAWINGS - The drawing shows the container...

Extension Abstract

...the distance between ribs is more than 10 times their thickness. They may have a **wave form** whose thickness at the crests is double that in the troughs. The **container** may have **top** and bottom sections with additional axial or radial outwardly-projecting ribs.

36/3,K/4 (Item 4 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0009741541

WPI ACC NO: 2000-027567/

XRAM Acc No: C2000-007589

XRPX Acc No: N2000-020598

Humidity controller for humidifier or dehumidifier - has waveform -shaped hydrophobic porous film at top of container that stores water

Patent Assignee: DAIKIN KOGYO KK (DAIK)

Inventor: ITO Y; MATSUKI Y

Patent Family (1 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
JP 11294806	A	19991029	JP 199899762	A	19980410	200003 B

Priority Applications (no., kind, date): JP 199899762 A 19980410

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 11294806	A	JA	7	9	

...has waveform -shaped hydrophobic porous film at top of container that stores water

Alerting Abstract ...NOVELTY - Hydrophobic porous film (3) shaped as a **waveform** is arranged to top (2a) of a water storing container (2) to separate interior of...

...ADVANTAGE - DESCRIPTION OF DRAWING - The figure shows three dimensional view of humidity control element. (2) Water storing container ; (2a) Top of water storing container ; (3) Hydrophobic porous film.

Documentation Abstract

NOVELTY - Hydrophobic porous film (3) shaped as a waveform is arranged to top (2a) of a water storing container (2) to separate interior of...

...DESCRIPTION OF DRAWING - The figure shows three dimensional view of humidity control element. (2) Water storing container ; (2a) Top of water storing container ; (3) Hydrophobic porous film.

Title Terms.../Index Terms/Additional Words: **WAVEFORM ;**

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